

The Tragic Impact and Death Count Due to Prescription Drug Abuse: Statistics and Analysis, Past and Present

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Built upon and modified from recent presentations by Al Mock, MD, MS, DABP, FCAP, FNAME, WV Chief Medical Examiner, and State Registrar of Vital Events Gary Thomposon



Polypharmacy

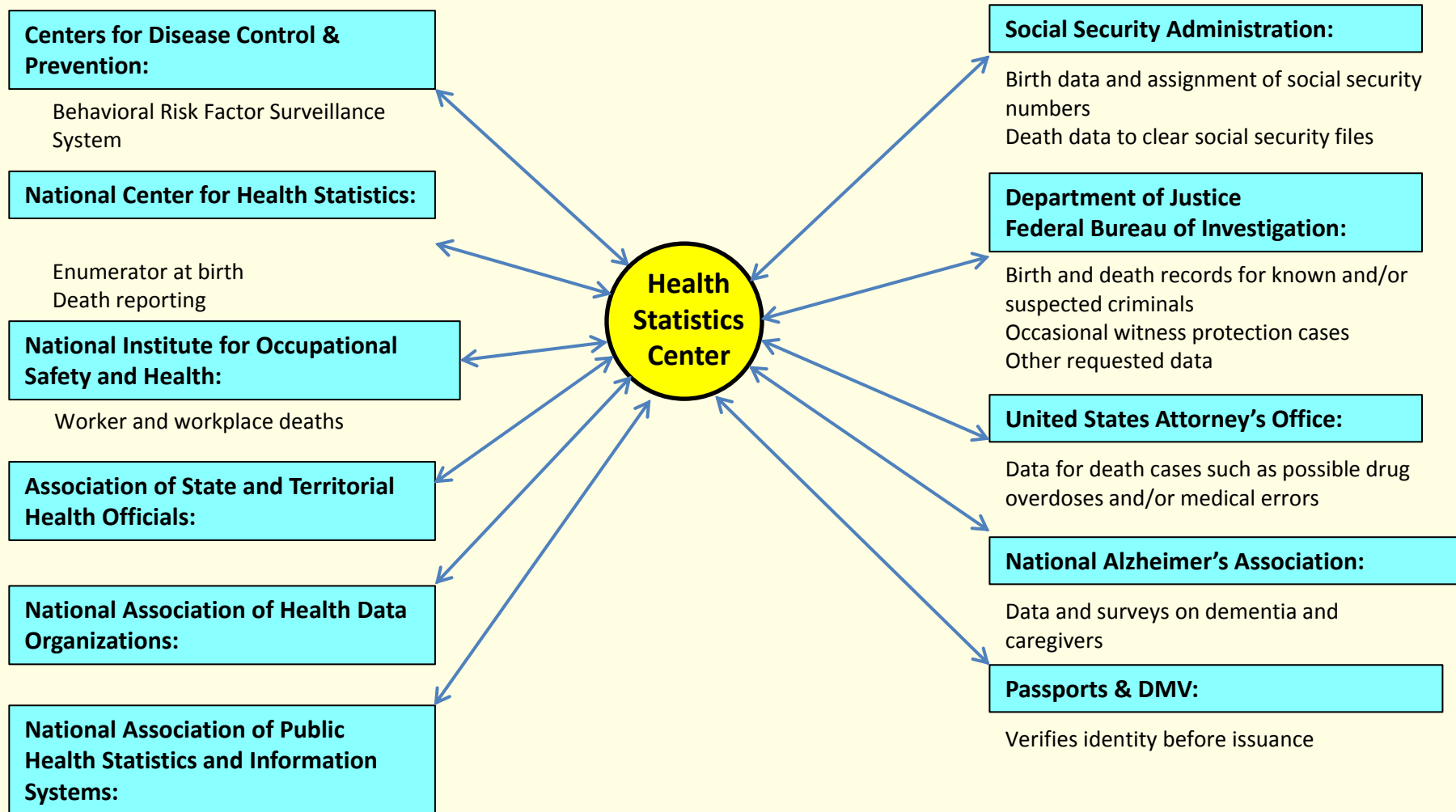
Most Drug Overdose Deaths Involve Multiple Substances

| Complications that caused the death. Do not enter the mode of dying, such as cardiac or respiratory at only one cause on each line. | Approximate Interval Between Onset and Death |
|--|--|
| Combined codeine, alprazolam, fluoxetine, dextromethorphan, DUE TO (OR AS A CONSEQUENCE OF) chlorpheniramine, lamotrigine & gabapentin intoxication | Mins. - hrs. |

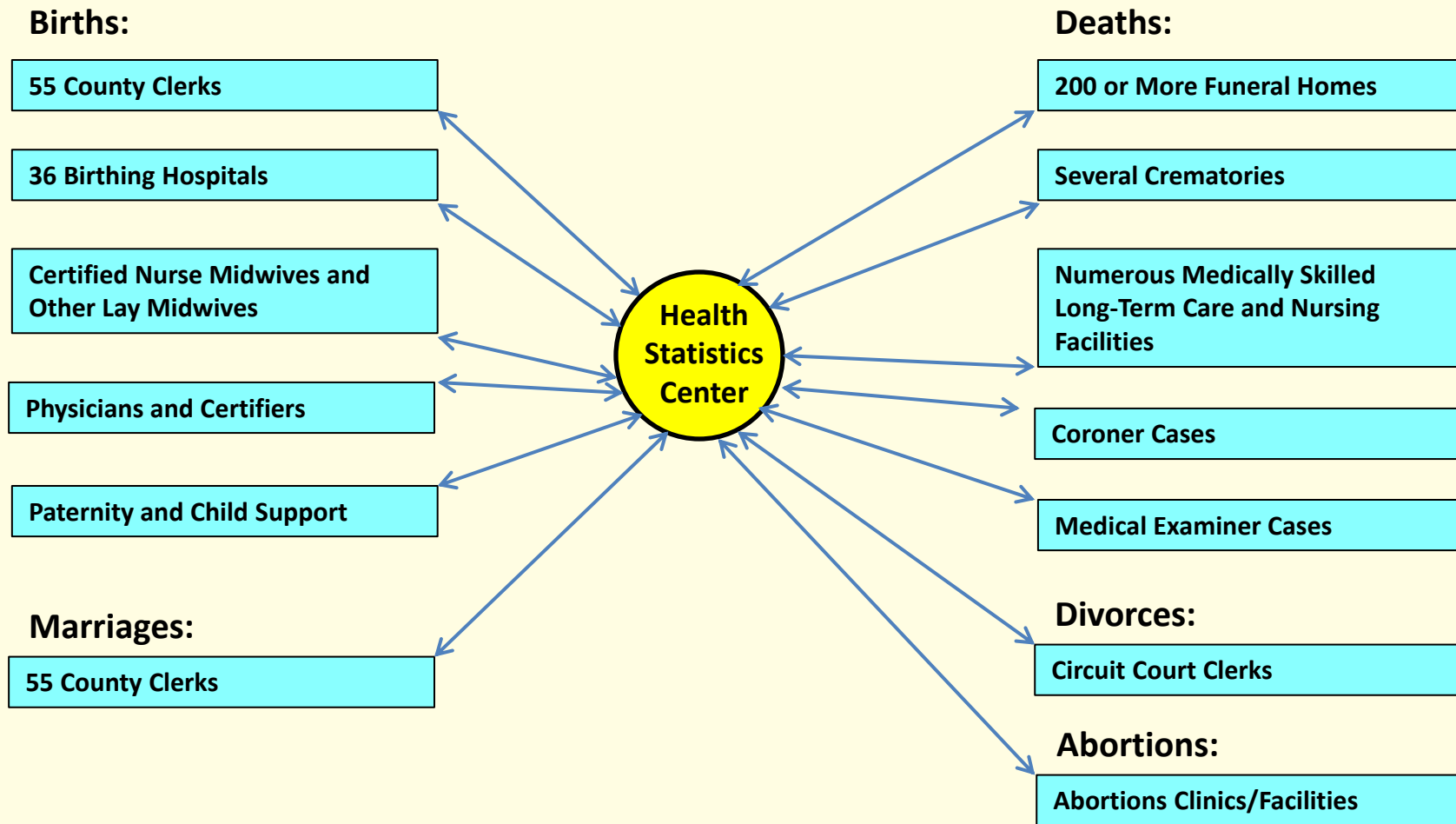
| Complications that caused the death. Do not enter the mode of dying, such as cardiac or respiratory at only one cause on each line. | Approximate Interval Between Onset and Death |
|---|--|
| Combined oxycodone, hydrocodone, citalopram, diazepam, clonazepam, DUE TO (OR AS A CONSEQUENCE OF) alprazolam, dipherhydramine & dextromethorphan intoxication | Mins. - hrs. |

| Complications that caused the death. Do not enter the mode of dying, such as cardiac or respiratory at only one cause on each line. | Approximate Interval Between Onset and Death |
|---|--|
| Oxymorphone, oxycodone, hydrocodone, gabapentin & alprazolam DUE TO (OR AS A CONSEQUENCE OF) intoxication | Mins. - hrs. |

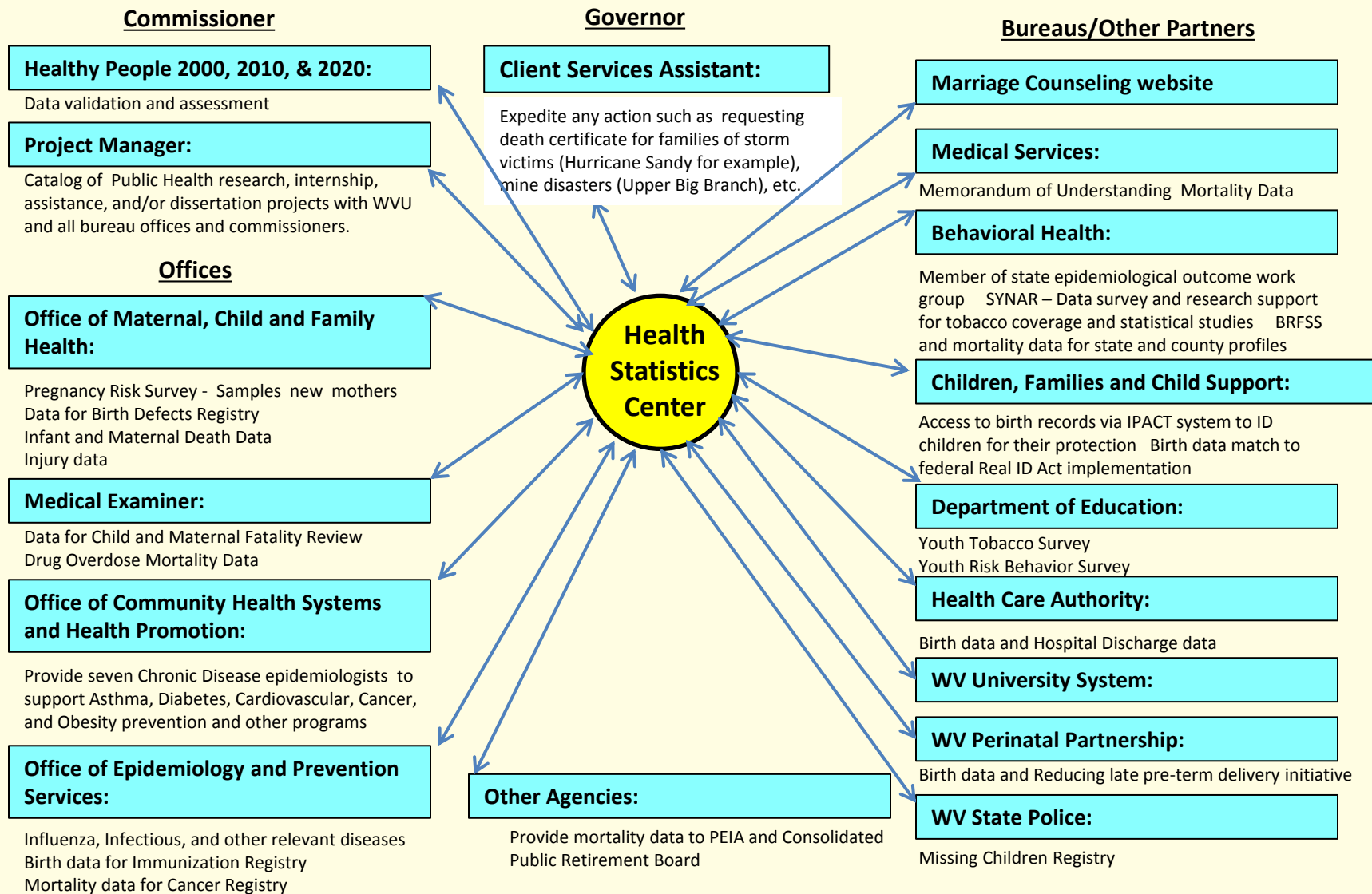
Matrix of Roles and Responsibilities With Federal Government and National Associations



Matrix of Roles and Responsibilities with Vital Registration



Matrix of Roles and Responsibilities With Other Public Offices, DHHR Bureaus and Major Partners



WV Health Statistics

West Virginia is ranked among the bottom in state health rankings. Statistics from the DHHR Bureau for Public Health's Health Statistics Center show the following for morbidity:

- 50th Fair/Poor Health
 - 50th Heart Disease
 - 50th Heart Attack
 - 50th Smoking
 - 50th Smokeless Tobacco Use
 - 50th Obesity
 - 50th Hypertension
 - 50th Arthritis
 - 50th Disability
 - 49th Chronic Obstructive Pulmonary Disease
 - 45th Kidney Disease
 - 44th No Physical Activity
 - 44th Stroke
 - 42nd Depression
 - 41st Cancer
 - 3rd Binge Drinking
 - 2nd Heavy Drinking
- 2013 Behavioral Risk Factor Surveillance System

Overdoses in 2012 Vs. Auto Travel & Vietnam

In 2012, 33,175 (79.9%) of the 41,502 drug overdose deaths in the United States were unintentional, 5,465 (13.2%) were of suicidal intent, 80 (0.2%) were homicides, and 2,782 (6.7%) were of undetermined intent.

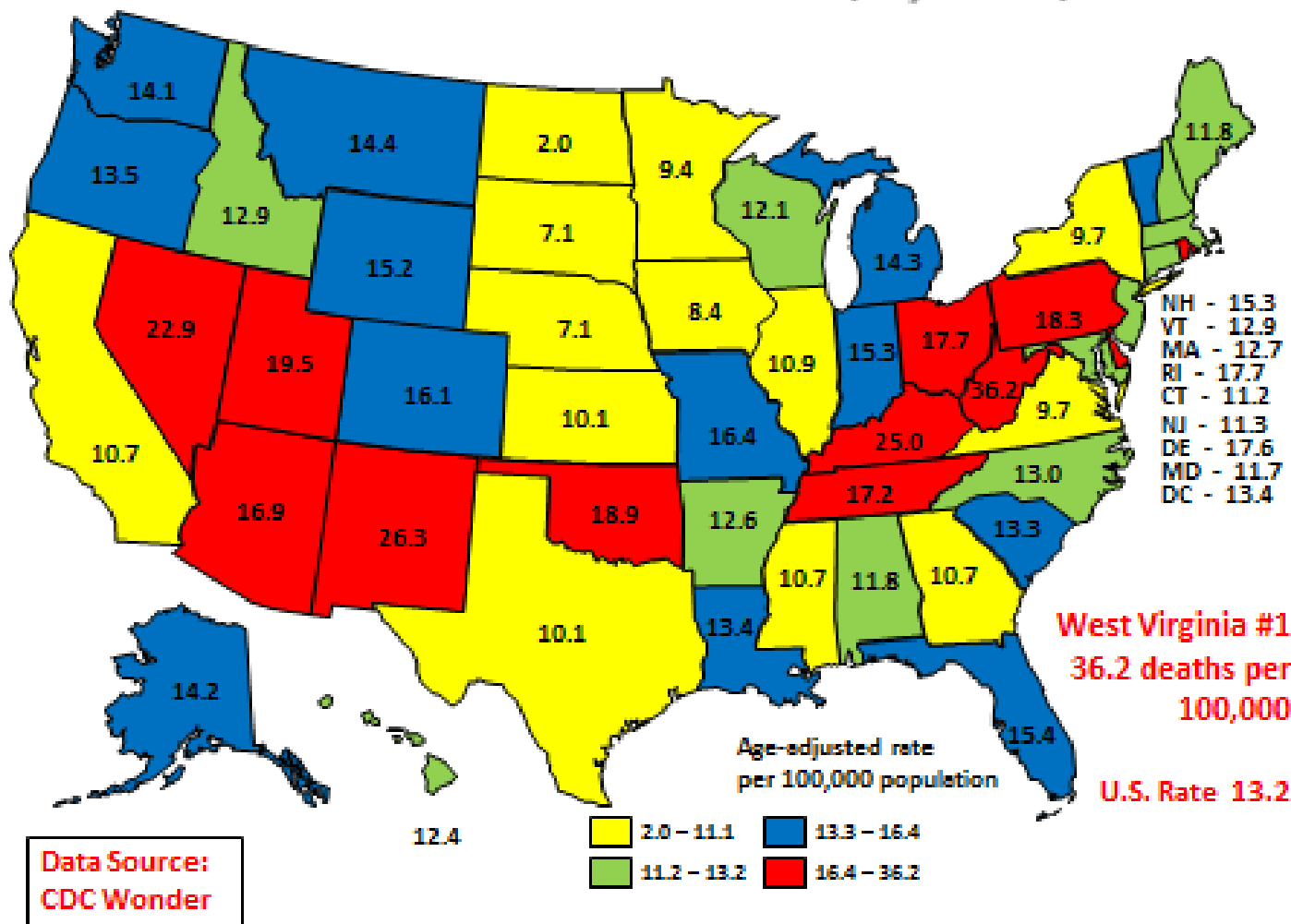
58,220 U.S. service members died in the Vietnam conflict. This was during the period 1955 – 1975, with most of the deaths occurring between 1961 and 1973.

Thus, about every two years we are losing more Americans to accidental drug overdose deaths than we did in the 12 years of major fighting in the Vietnam war.

Also, US Auto travel related deaths in 2012 were 33,561 just slightly higher than accidental overdose deaths.

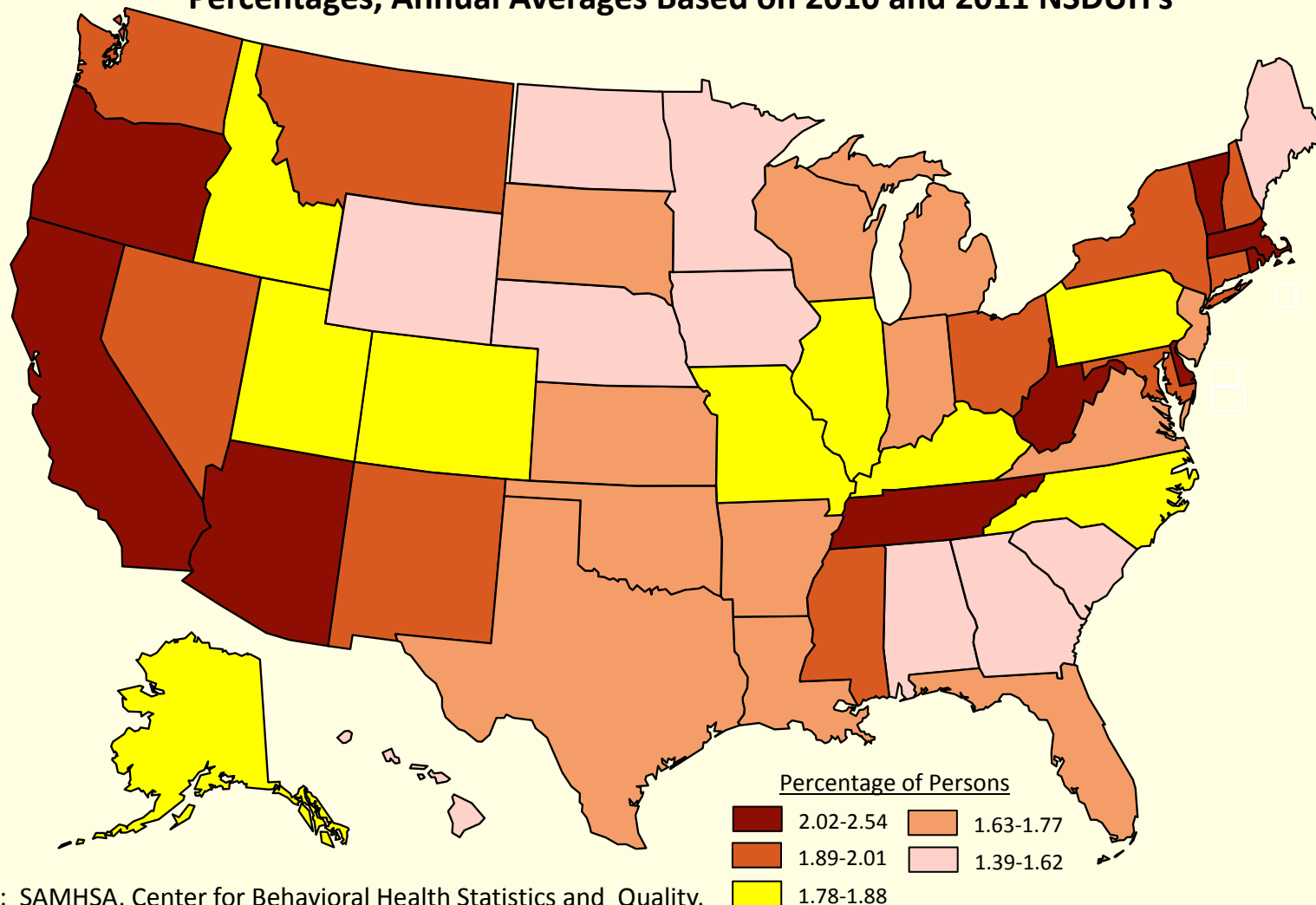
Drug Overdose Rates by State

US Resident Overdose Death Rates, by State, 2011



Illicit Drug Dependence by State

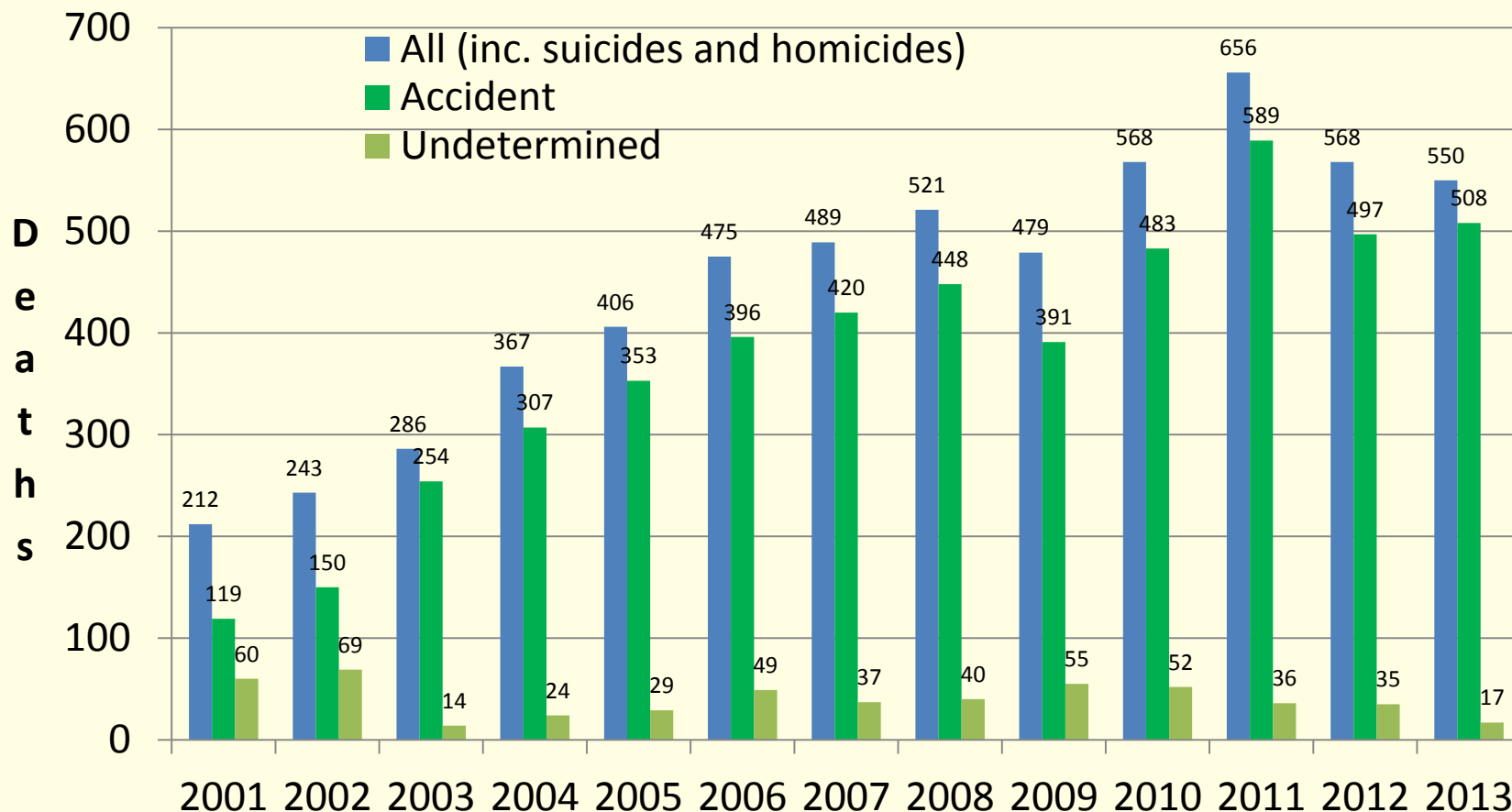
Illicit Drug Dependence in the Past Year Among Persons Aged 12 or Older by State Percentages, Annual Averages Based on 2010 and 2011 NSDUH's



Source: SAMHSA, Center for Behavioral Health Statistics and Quality,
NSDUH, 2010 (Revised March 2012) and 2011

Trend Analysis

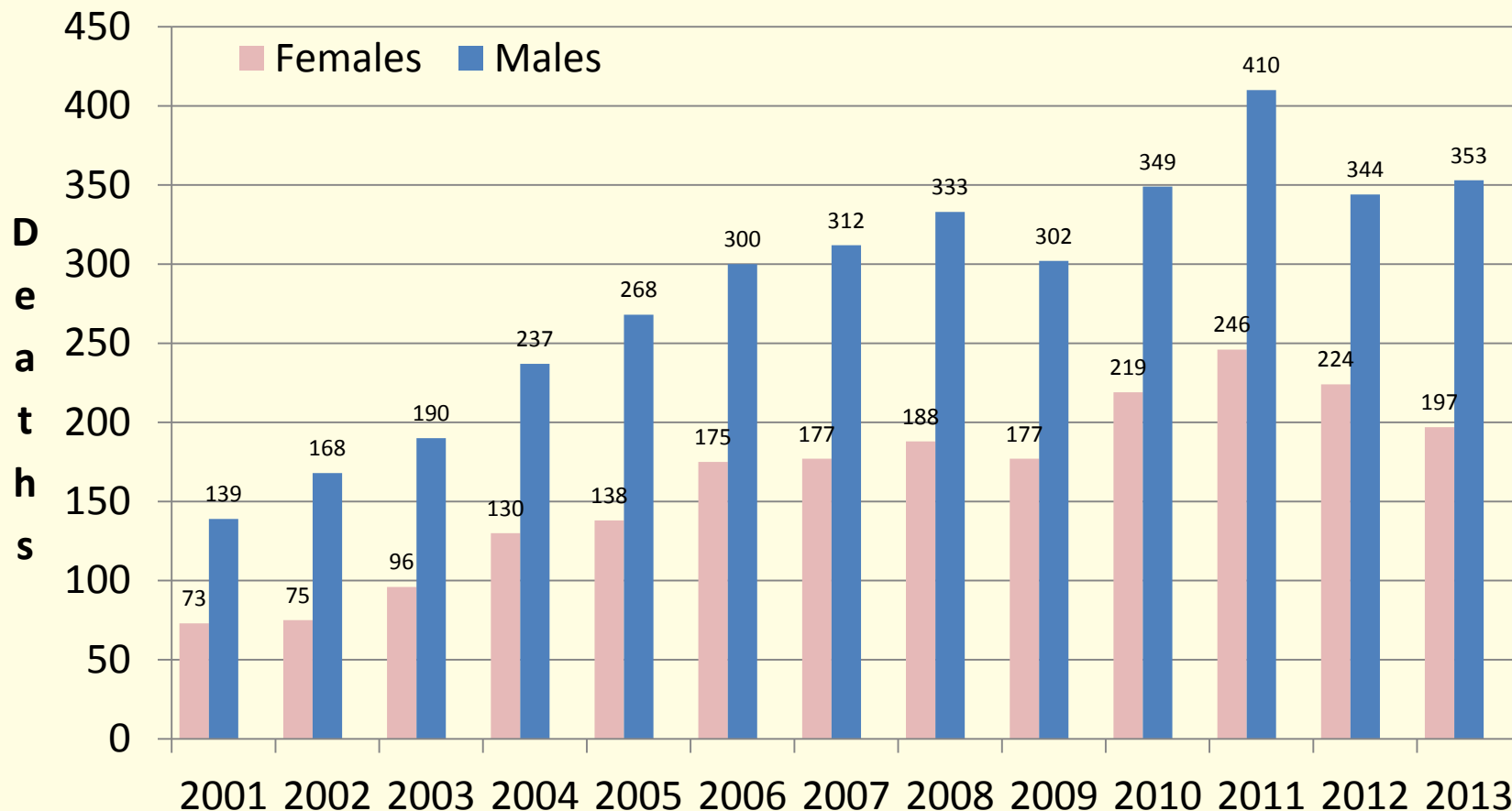
WV Drug Overdose Deaths by Year & Manner 2001-2013 Occurrences



Data Source: WV Health Statistics Center, Vital Statistics System

Note - 2013 Preliminary

WV Drug Overdose Deaths by Year & Sex 2001-2013 Occurrences

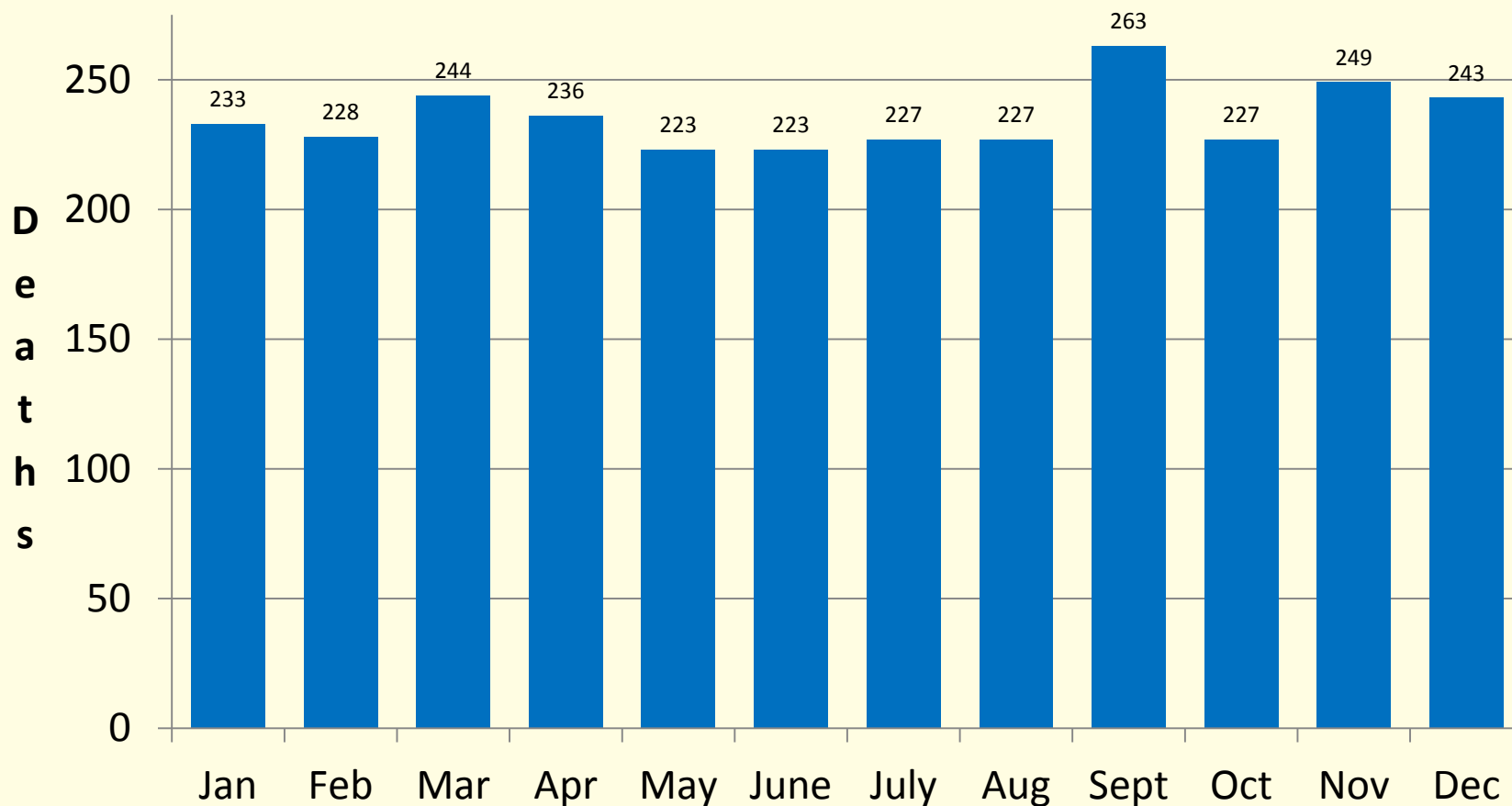


Data Source: WV Health Statistics Center, Vital Statistics System

Note - 2013 Preliminary

Average Drug Overdose

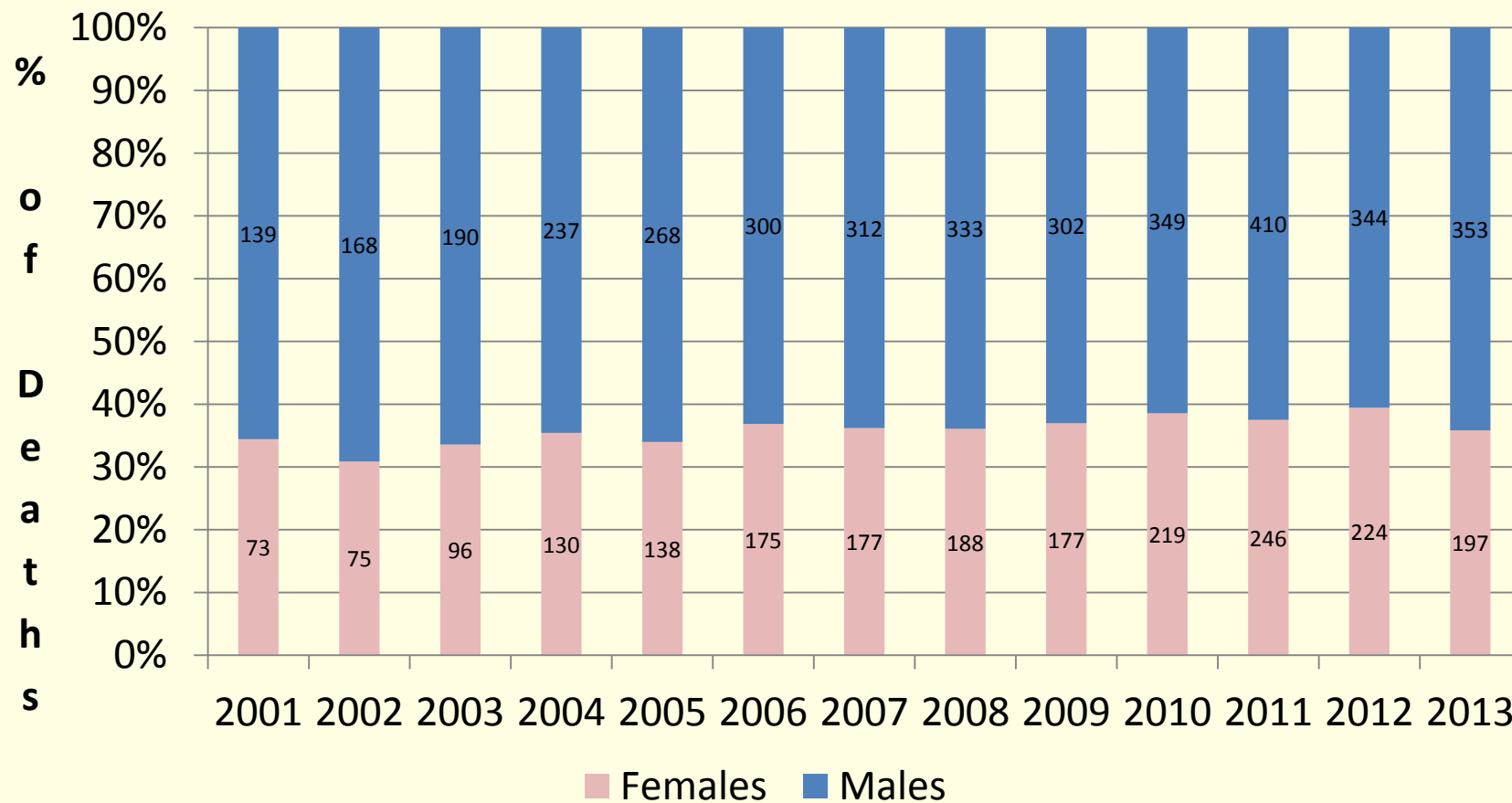
WV Average Drug Overdose Deaths by Month 2009-2013 Occurrences



Data Source: WV Health Statistics Center, Vital Statistics System

Trend Analysis

WV Drug Overdose Deaths by Year & Sex as a % of Total 2001-2013 Occurrences

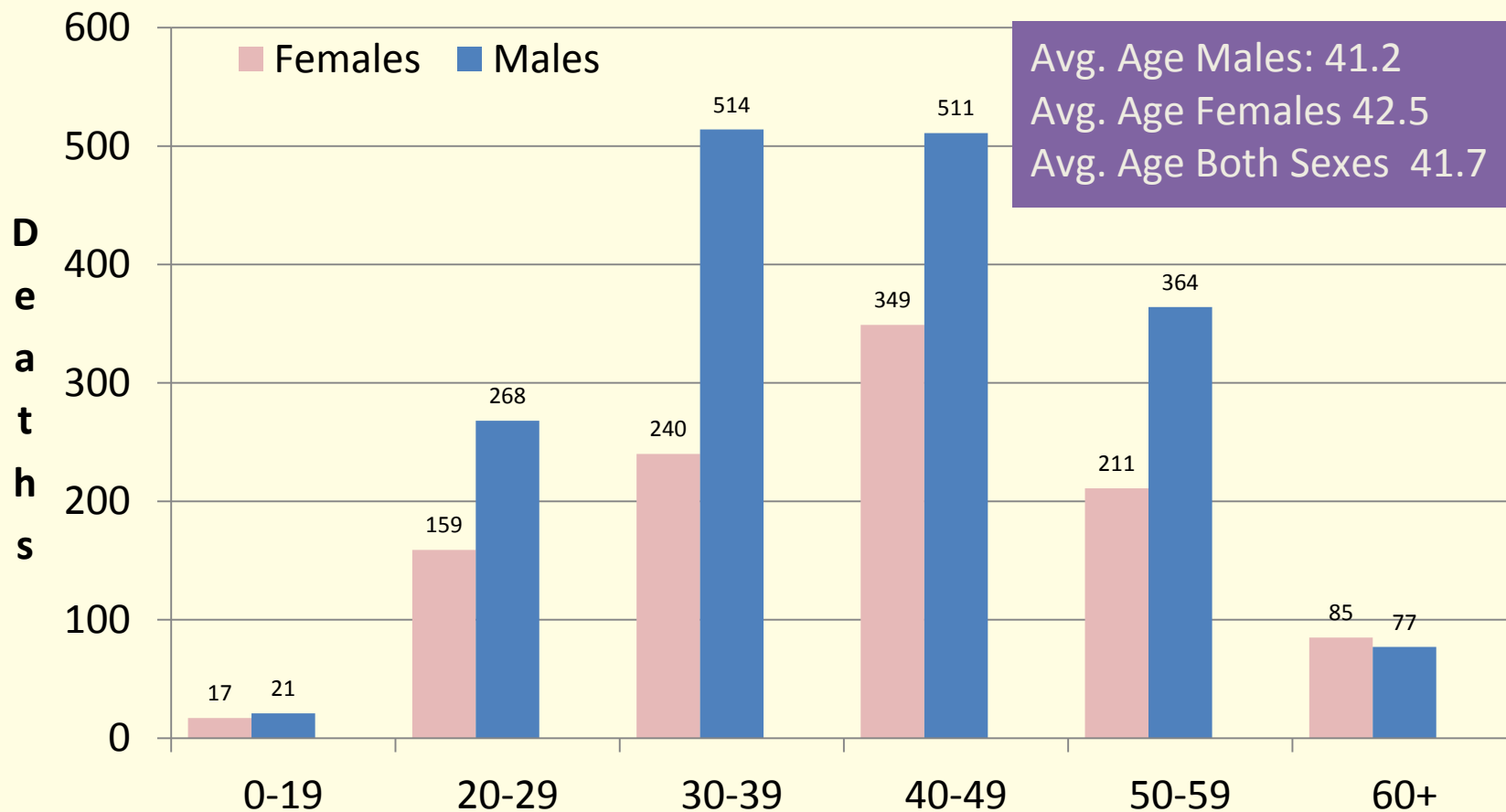


Data Source: WV Health Statistics Center, Vital Statistics System

Note - 2013 Preliminary

Demographic Analysis

WV Drug Overdose Deaths by Age-Group & Sex 2009-2013 Occurrences

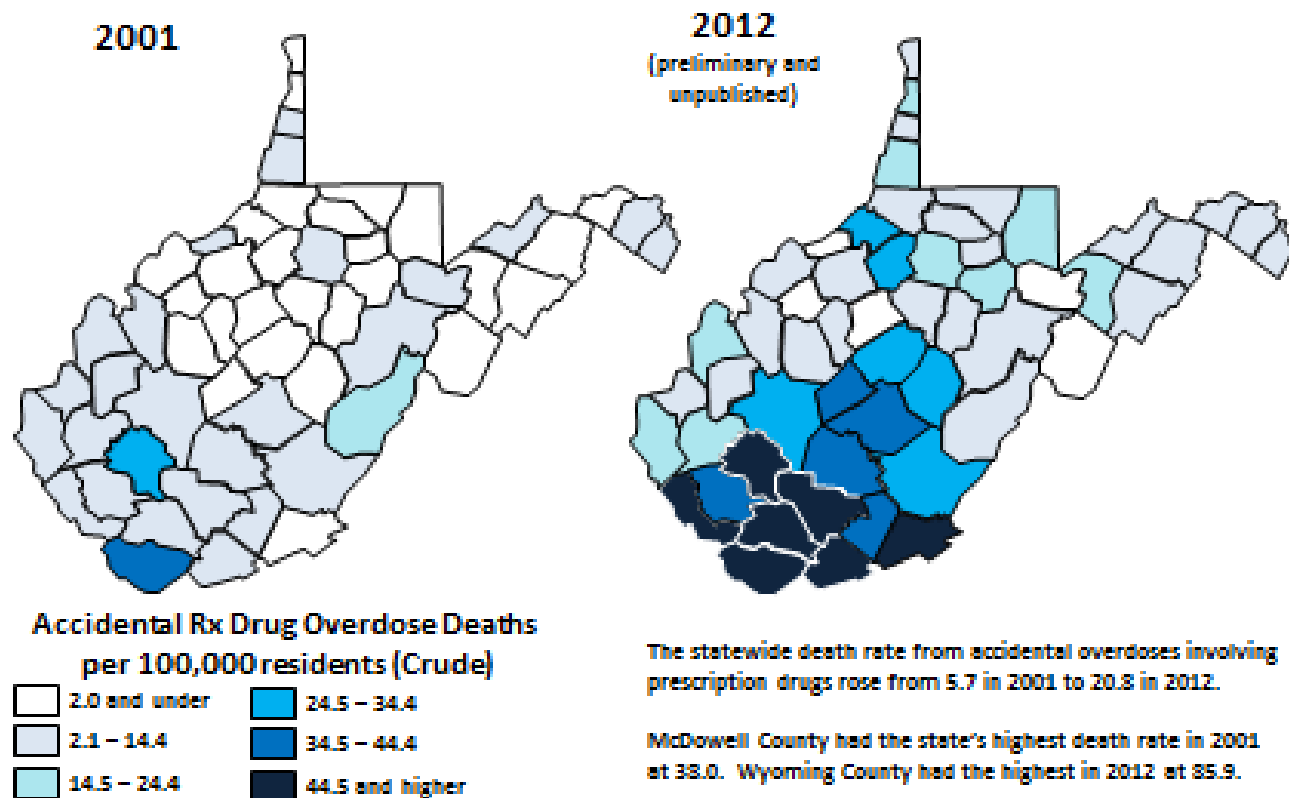


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

County Level Overdose Death Rates 2001 & 2012

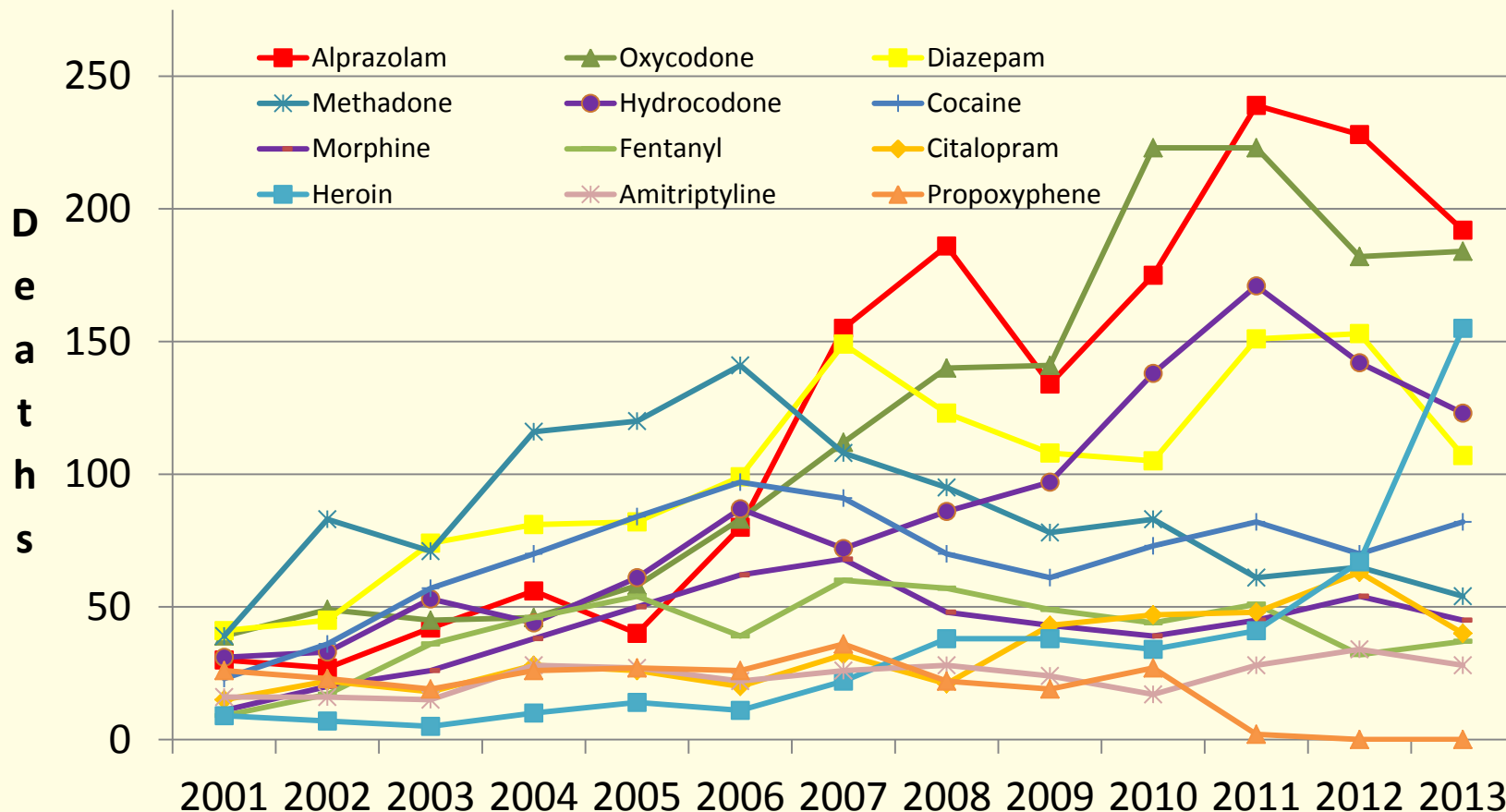
Accidental Rx Drug Overdose Death Rates Reach New Highs (WV resident deaths occurring in WV)



Data Source: WV Health Statistics Center, Vital Statistics System

Trend Analysis

WV Drug Overdose Deaths for Selected Drugs 2001-2013 Occurrences by Year

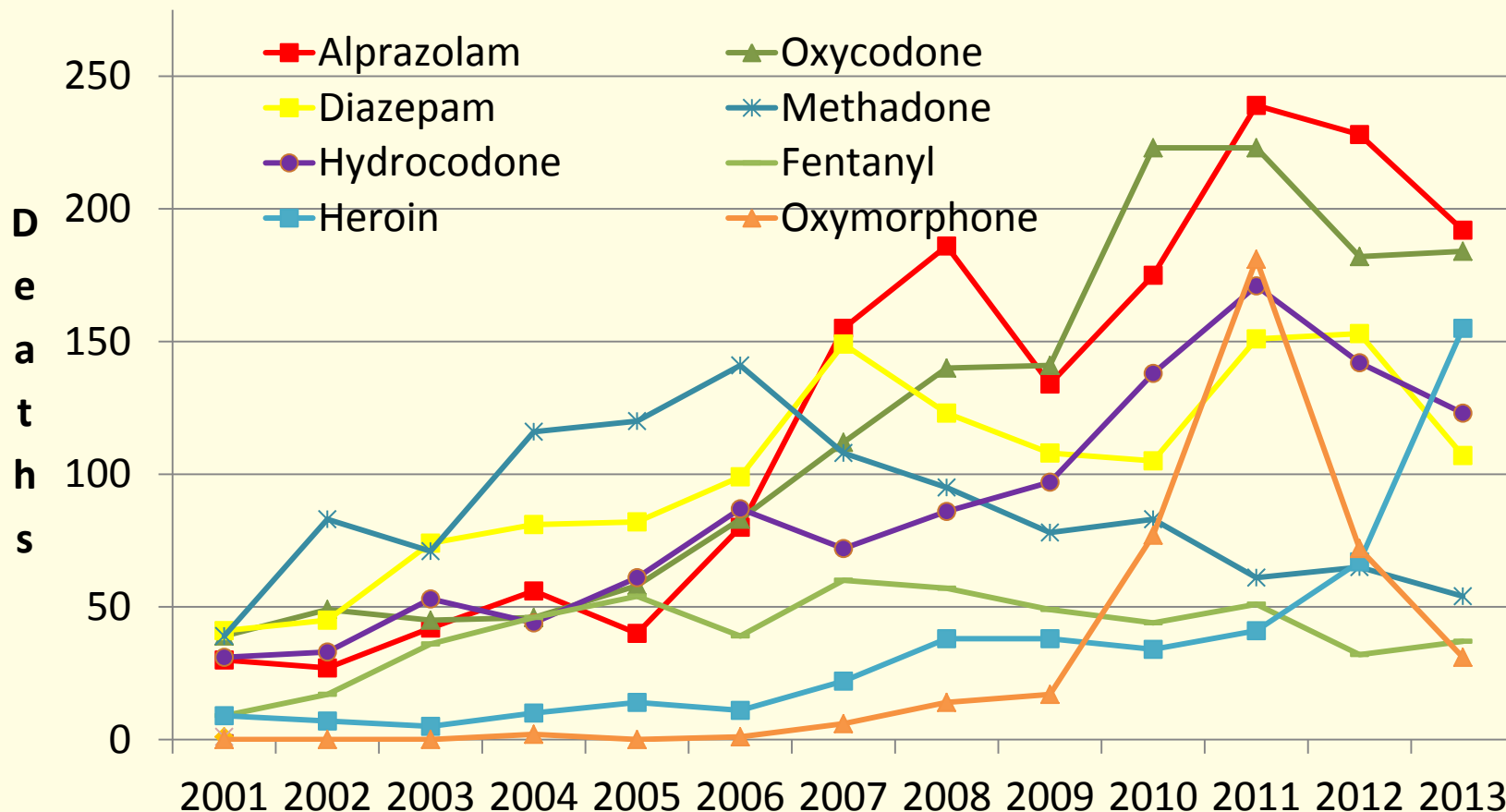


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

Trend Analysis

WV Drug Overdose Deaths by Selected Drug Involved 2001-2013 Occurrences by Year

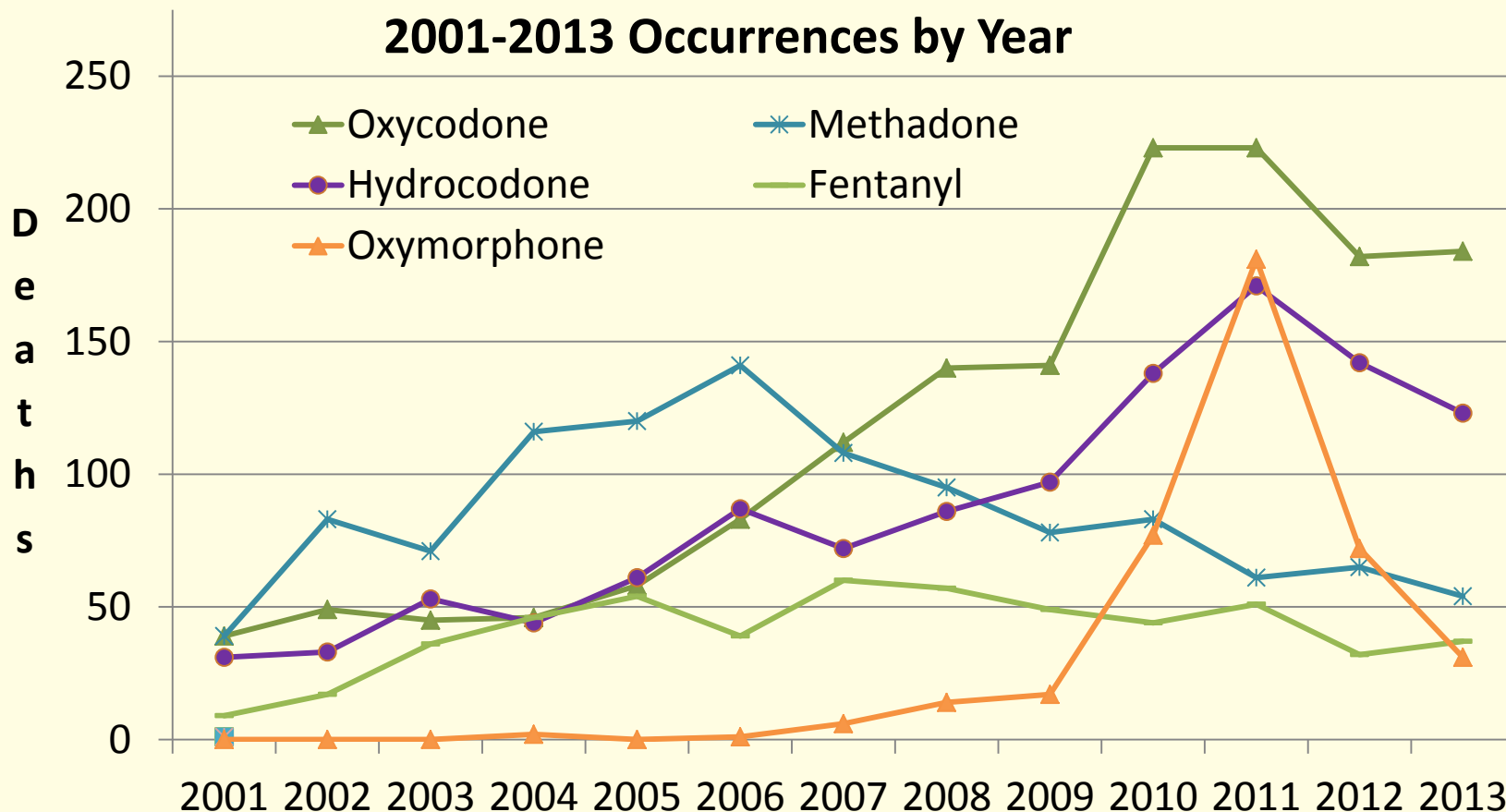


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

Trend Analysis

WV Drug Overdose Deaths for Selected Prescription Opiates (Pharmaceuticals) 2001-2013 Occurrences by Year

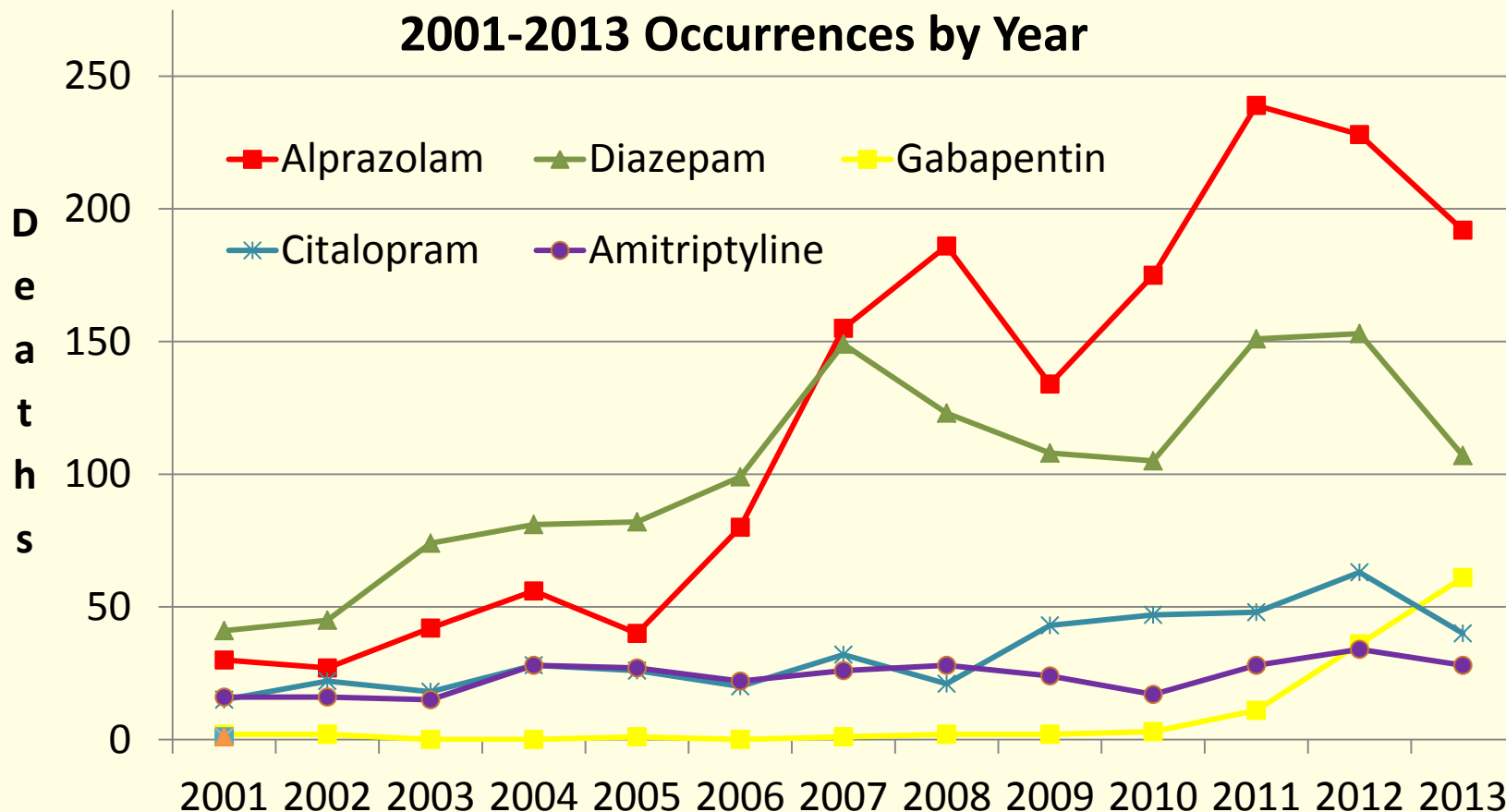


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

Trend Analysis

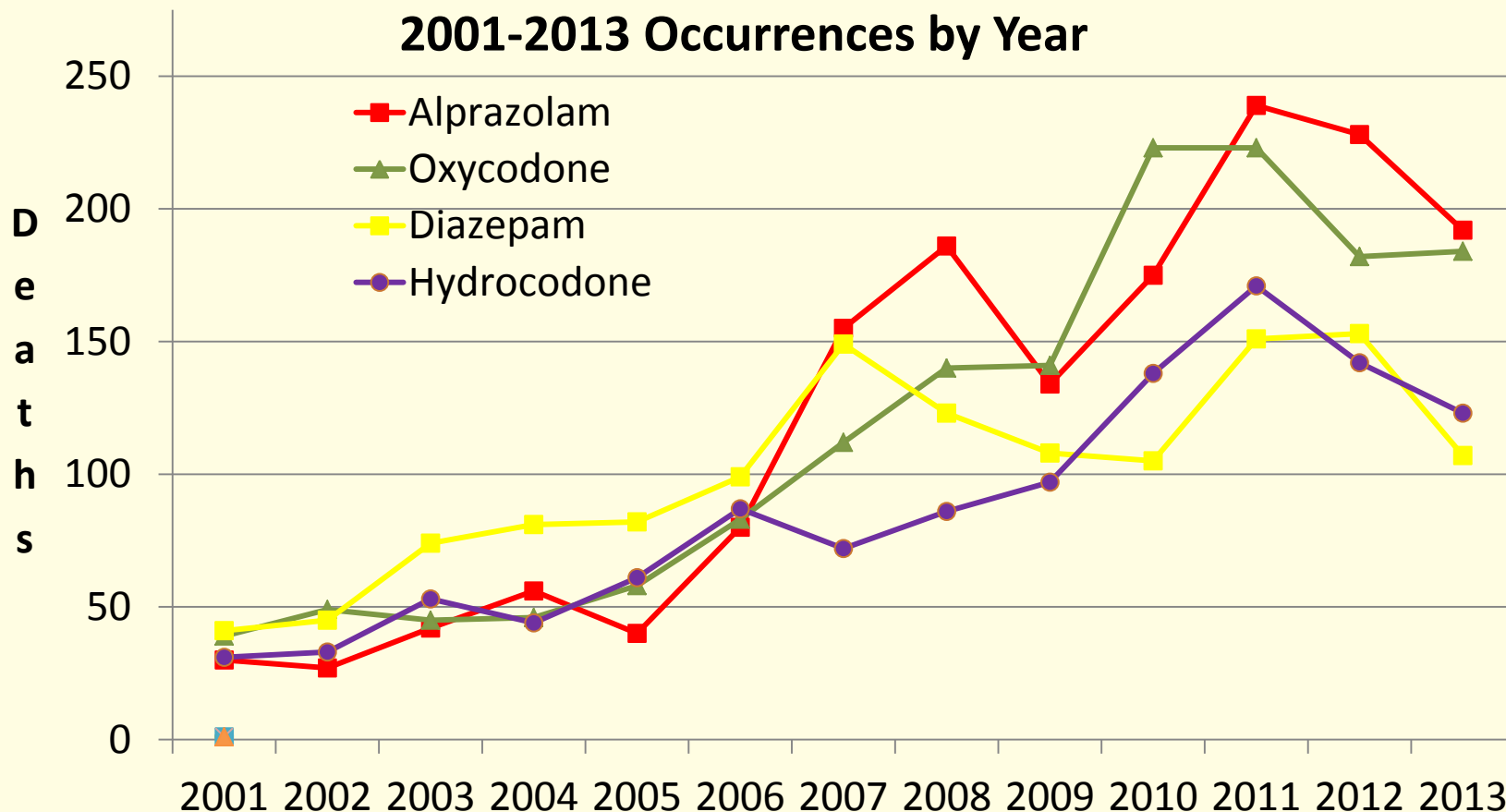
WV Drug Overdose Deaths for Selected Prescription Non-Opiate Drugs (Pharmaceuticals) 2001-2013 Occurrences by Year



Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

WV Drug Overdose Deaths for Selected Opiates and Benzodiazepines 2001-2013 Occurrences by Year

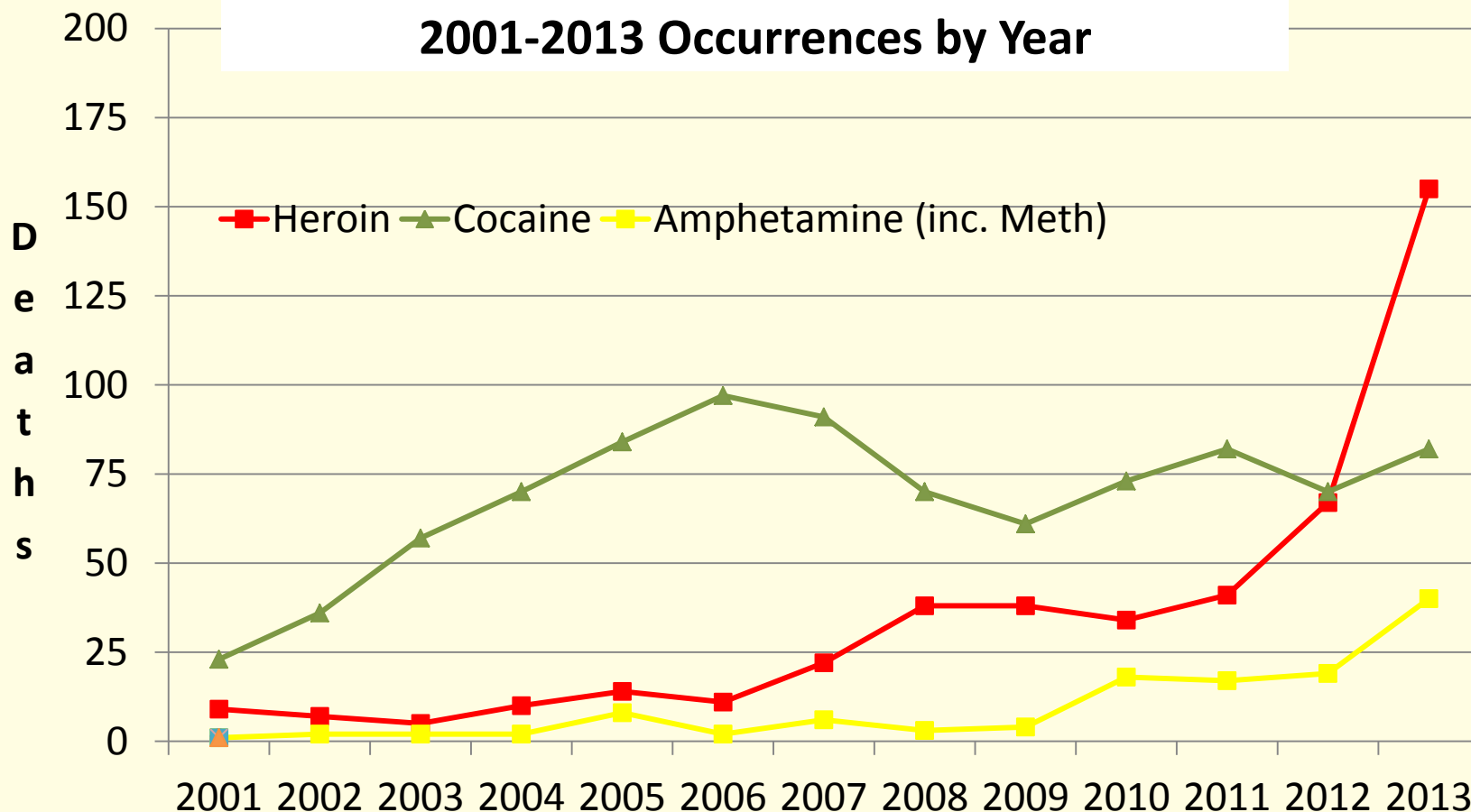


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

Trend Analysis

WV Drug Overdose Deaths for Heroin, Cocaine, and Amphetamines (Inc. Meth-) 2001-2013 Occurrences by Year

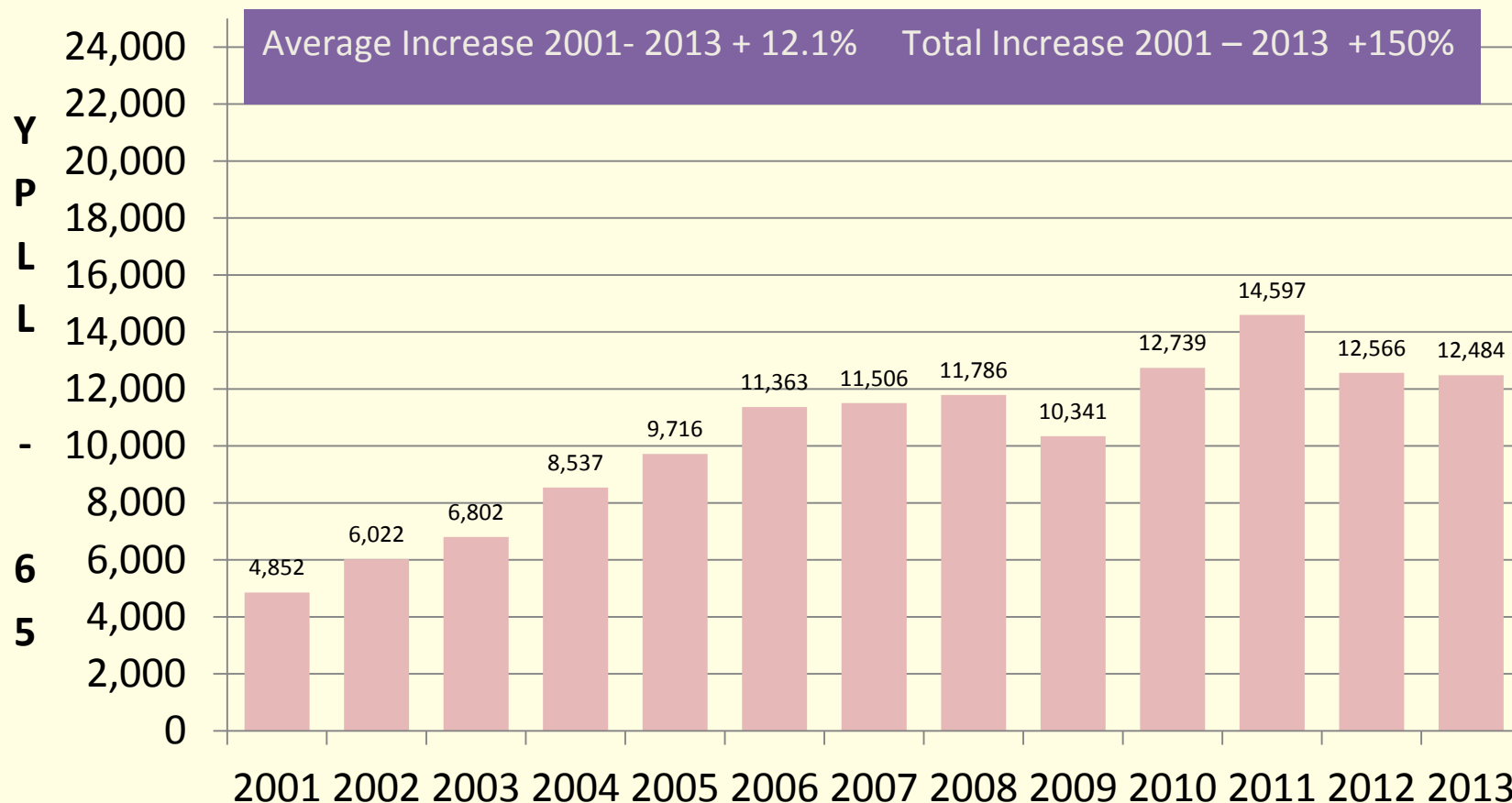


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

YPLL Before Age 65 – All Drug Overdoses

Years of Potential Life Lost Before Age 65 2001-2013 All WV Drug Overdose Occurrences

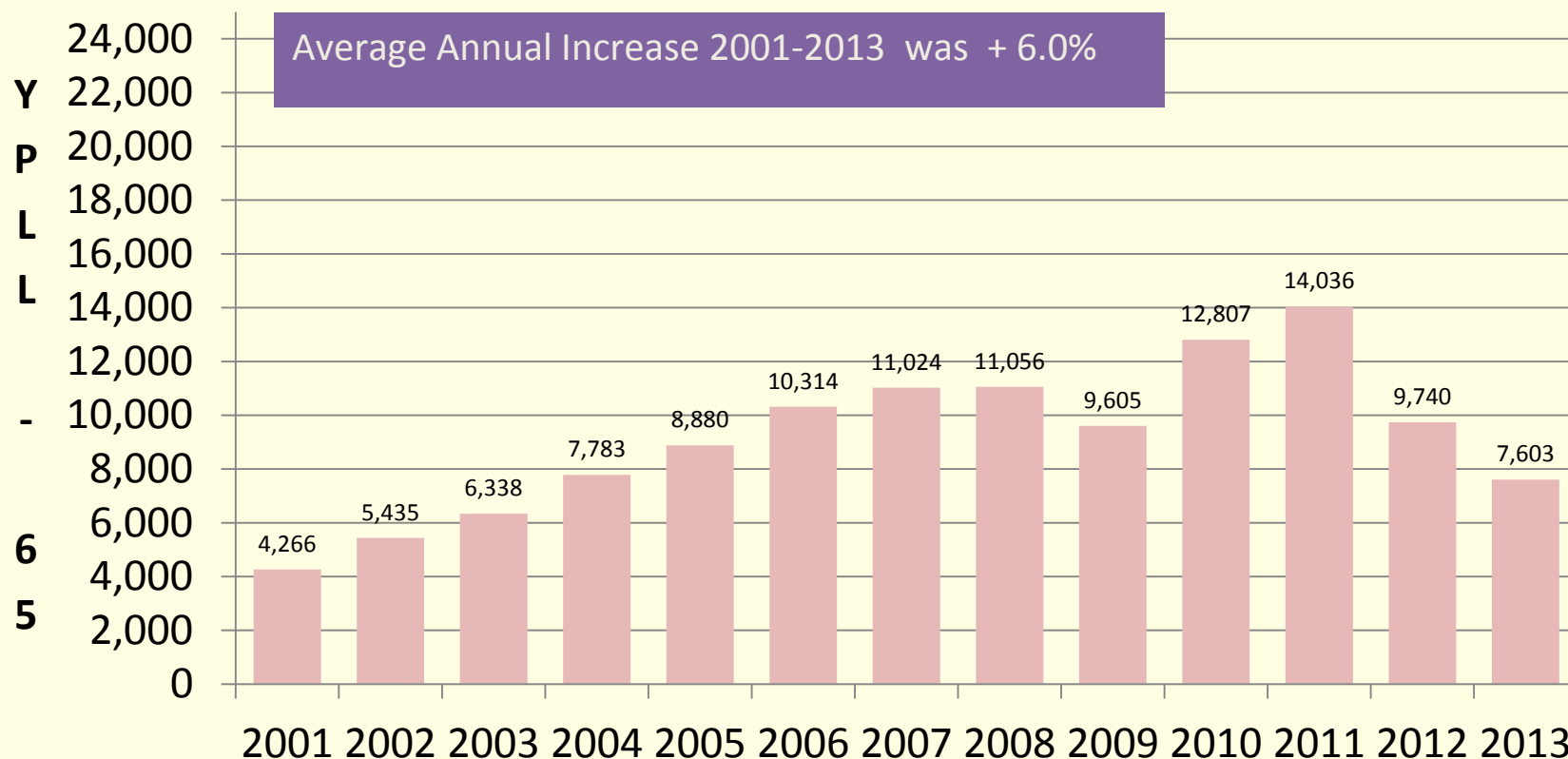


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

YPLL Before Age 65 – Prescription Drug Overdoses

Years of Potential Life Lost Before Age 65 2001-2013 WV Drug Overdose Occurrences Where at Least One or More Prescription Drugs Involved

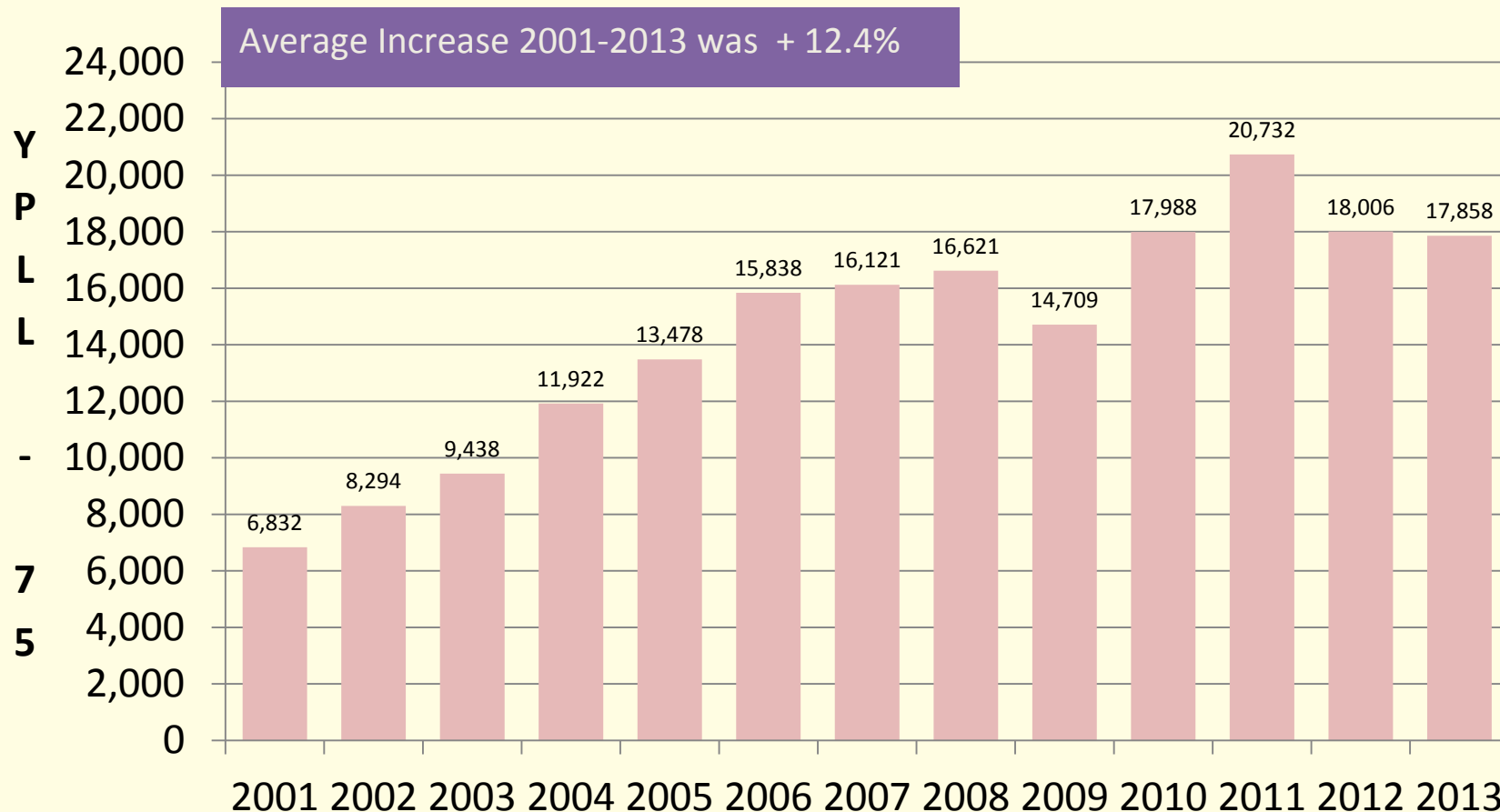


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

YPLL Before Age 75 – All Drug Overdoses

Years of Potential Life Lost Before Age 75 2001-2013 All WV Drug Overdose Occurrences

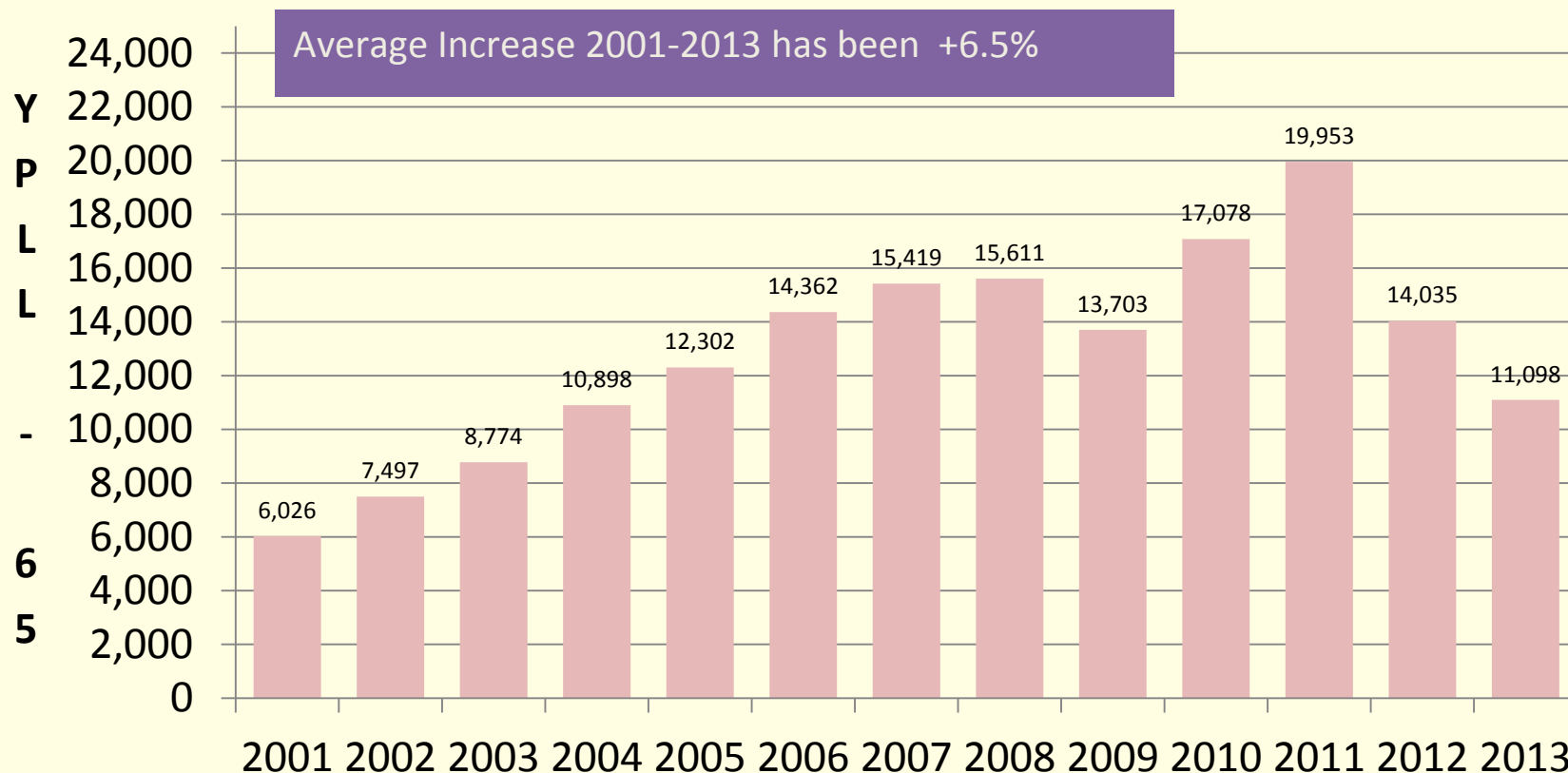


Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

YPLL Before Age 75 – Prescription Drug Overdoses

Years of Potential Life Lost Before Age 75 2001-2013 WV Drug Overdose Occurrences Where at Least One or More Prescription Drugs Involved



Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

2014?

AS OF AUGUST 21, 2014 FILED DEATH CERTIFICATES REFLECT:

258 TOTAL OVERDOSE DEATHS OF WHICH:

79 ARE OXYCODONE RELATED

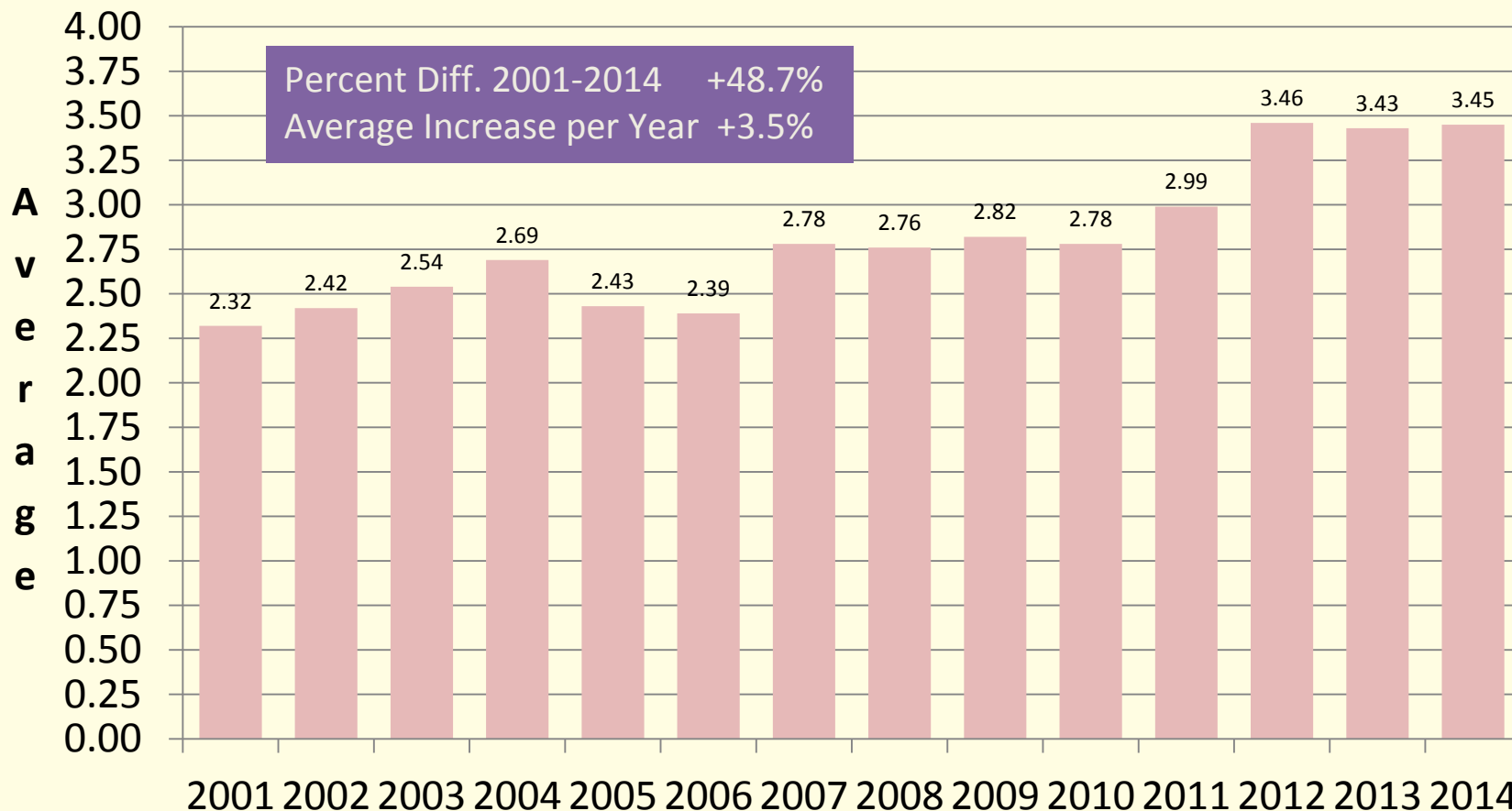
58 ARE HYDROCODONE RELATED

57 ARE HEROIN RELATED

THESE DATA ARE VERY INCOMPLETE, MEANING NO CONCLUSIONS CAN BE MADE ABOUT WHAT THE FINAL OVERDOSE TOLL MAY BE FOR 2014. BASED ON RECENT TRENDS AT LEAST TEN WV RESIDENTS WILL DIE FROM OVERDOSE THIS WEEK.

Number of Drugs Involved

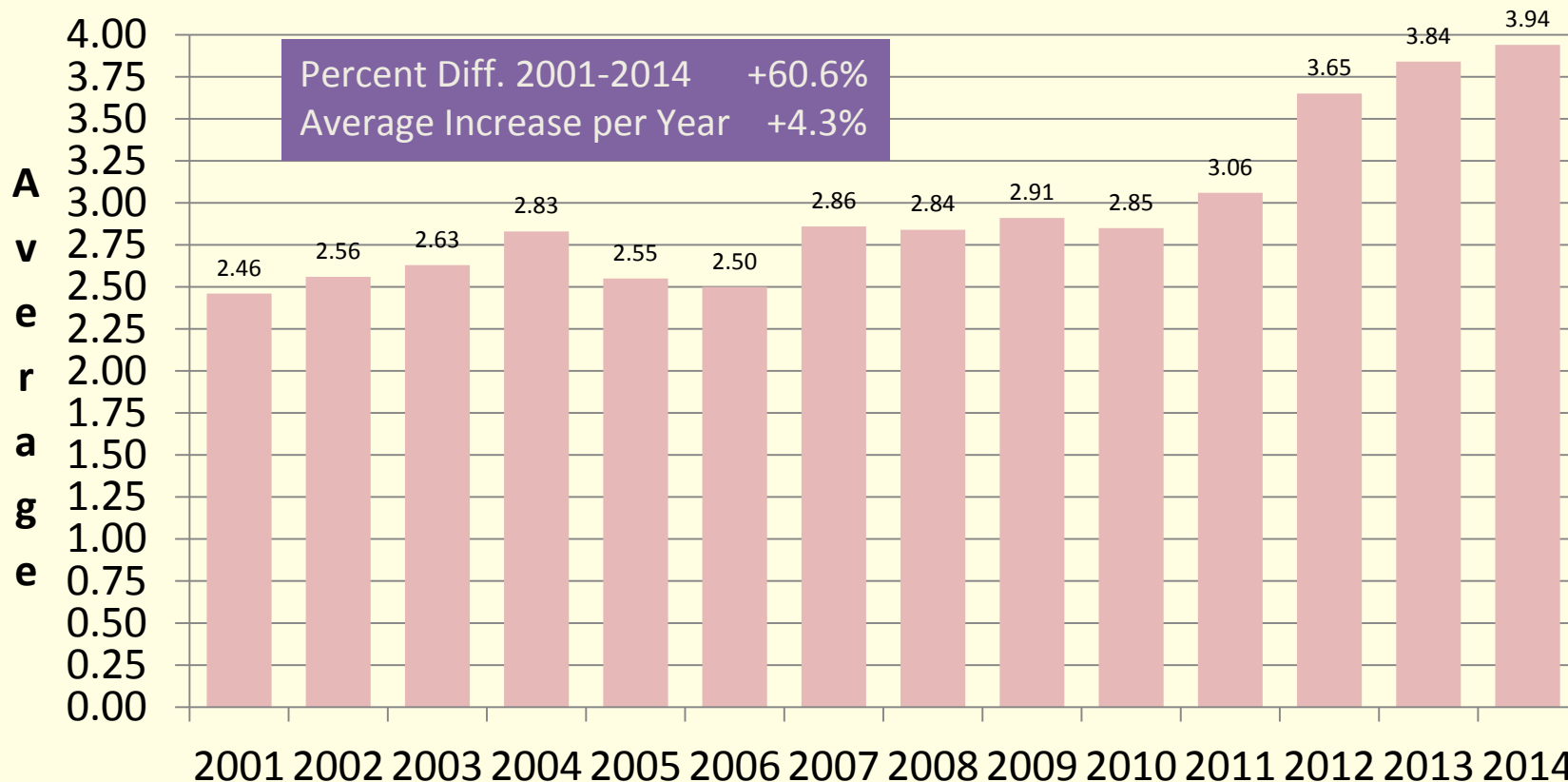
Average Number of Drugs Involved Per Fatal Overdose 2001-2014 Occurrences



Data Source: WV Health Statistics Center, Vital Statistics System
2013 Preliminary, 2014 Cumulative and Unedited

Number of Prescription Drugs Involved

Average Number of Drugs Per Fatal Overdose Where One or More Prescription Drugs Were Involved 2001-2014 Occurrences



Data Source: WV Health Statistics Center, Vital Statistics System
2013 Preliminary, 2014 Cumulative and Unedited

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HSC Publications

<http://www.wvdhhr.org/bph/hsc/statserv/publist.asp>

Behavioral Health and HSC County Data Profiles

<http://www.dhhr.wv.gov/bhhf/Sections/programs/ProgramsPartnerships/AlcoholismandDrugAbuse/Research/Pages/DataResearch.aspx>

Thanks for your time. Email me for links and presentation